

AMENDMENTS TO THE CLAIMS

1-19. (Canceled)

20. (Currently Amended) A method for creating seamless presentation information of picture data in a recording medium, the method comprising:

recording picture data on the recording medium by grouping the picture data into objects;
determining whether a current object of the picture data is to be presented seamlessly or non-seamlessly with a previous object of the picture data;

creating an indication information indicating whether or not the current object of the picture data is to be presented seamlessly with the previous object based on a result of the determination; and

selectively recording the seamless presentation information for a corresponding object only when the current object is to be presented seamlessly,

wherein the seamless presentation information only includes a first system clock reference for the corresponding object and at least a last system clock reference field of a previous object when the current object is to be presented seamlessly with the previous object and does not include the first system clock reference for the corresponding object and the at least the last system clock reference field of the previous object when the current object is not to be presented seamlessly with the previous object with the previous object based on a result of the determination,

~~wherein the seamless presentation data includes a last system clock reference field of a former of two successive objects and a first system clock reference of a latter of the two successive objects.~~

21-22. (Canceled).

23. (Previously Presented) The method according to claim 20, wherein the seamless presentation information is included in navigation information pertaining to each object.

24. (Previously Presented) The method according to claim 23, wherein the navigation information includes the indication information indicating whether or not the current object is to be presented seamlessly with the previous object.

25-26. (Canceled).

27. (Currently Amended) A recording apparatus for creating seamless presentation information of picture data in a recording medium, the apparatus comprising:

a processing unit configured to produce picture data;

a recording unit configured to record the produced picture data on the recording medium by grouping the picture data into objects; and

a control unit configured to control the processing unit and the recording unit to determine whether a current object of the picture data is to be presented seamlessly or non-seamlessly with a previous object of the picture data, to create an indication information indicating whether or not the current object of the picture data is to be presented seamlessly with the previous object based on a result of the determination, and to selectively record the seamless presentation information for a corresponding object only when the current object is to be presented seamlessly with the previous object based on a result of the determination,

wherein the seamless presentation information only includes a first system clock reference for the corresponding object and at least a last system clock reference field of a previous object when the current object is to be presented seamlessly with the previous object and does not include the first system clock reference for the corresponding object and the at least the last system clock reference field of the previous object when the current object is not to be presented seamlessly with the previous object;

~~wherein the seamless presentation data includes a last system clock reference field of a former of two successive objects and a first system clock reference of a latter of the two successive objects.~~

28. (Previously Presented) The apparatus according to claim 27, wherein the seamless presentation information is included in navigation information pertaining to each object.

29. (Previously Presented) The apparatus according to claim 28, wherein the navigation information includes the indication information indicating whether the current object is to be presented seamlessly with the previous object.

30-31. (Canceled).

32. (Currently Amended) A reproducing apparatus for reading seamless presentation information of picture data in a recording medium, the apparatus comprising:

a reproducing unit configured to read picture data on the recording medium that is grouped into objects; and

a control unit configured to determine whether a current object of the picture data is to be reproduced seamlessly or non-seamlessly with a previous object of the picture data based on an indication information ~~on the recording medium~~ indicating whether or not the current object of the picture data is to be presented seamlessly with the previous object, and to control the reproducing unit to selectively and seamlessly reproduce using a seamless presentation information for a corresponding object only when the current object is to be presented seamlessly with the previous object based on a result of the determination,

wherein the seamless presentation information only includes a first system clock reference for the corresponding object and at least a last system clock reference field of a previous object when the indication information indicates the current object is to be presented seamlessly with the previous object and does not include the first system clock reference for the corresponding object and the at least the last system clock reference field of the previous object when the current object is not to be presented seamlessly with the previous object;

wherein the seamless presentation data includes a last system clock reference field of a former of two successive objects and a first system clock reference of a latter of the two successive objects.

33. (Previously Presented) The apparatus according to claim 32, wherein the seamless presentation information is included in navigation information pertaining to each object.

34. (Previously Presented) The apparatus according to claim 33, wherein the navigation information includes the indication indicating whether the current object is to be reproduced seamlessly with the previous object.

35-36. (Canceled).

37. (Currently Amended) A recording medium including seamless presentation information of picture data that is recorded by a recording unit and reproduced by a reproducing unit, the recording medium comprising:

picture data that is grouped into objects;

indication information indicating whether or not a current object of the picture data is to be presented seamlessly with a previous object; and

seamless presentation information selectively recorded for a corresponding object of the picture data only when the current object of the picture data is to be presented seamlessly with the previous object based on a result of the determination,

wherein the seamless presentation information only includes a first system clock reference for the corresponding object and at least a last system clock reference field of a previous object when the current object is to be presented seamlessly with the previous object and does not include the first system clock reference for the corresponding object and the at least the last system clock reference field of the previous object when the current object is not to be presented seamlessly with the previous object;

~~wherein the seamless presentation data includes a last system clock reference field of a former of two successive objects and a first system clock reference of a latter of the two successive objects.~~

38. (Previously Presented) The recording medium according to claim 37, wherein the seamless presentation information is included in navigation information pertaining to each object.

39. (Previously Presented) The recording medium according to claim 38, wherein the navigation information includes indication information indicating whether the corresponding object is to be presented seamlessly with the previous object.

40-41. (Canceled).

42. (Currently Amended) A method for reproducing seamless presentation information of picture data in a recording medium, the method comprising:

reading picture data on the recording medium that is grouped into objects;

reading created indication information on the recording medium indicating whether or not the current object of the picture data is to be presented seamlessly or non-seamlessly with a previous object; and

determining whether a current object of the picture data is to be reproduced seamlessly or non-seamlessly with a previous object of the picture data based on the indication information;
and

seamlessly reproducing the objects using a seamless presentation information for the current object only when the current object of the picture data is to be presented seamlessly with the previous object based on a result of the determination,

wherein the seamless presentation information only includes a first system clock reference for the corresponding object and at least a last system clock reference field of a previous object when the current object is to be presented seamlessly with the previous object and does not include the first system clock reference for the corresponding object and the at least the last system clock reference field of the previous object when the current object is not to be presented seamlessly with the previous object;

~~wherein the seamless presentation data includes a last system clock reference field of a former of two successive objects and a first system clock reference of a latter of the two successive objects.~~

43. (Previously Presented) The method according to claim 42, wherein the seamless presentation information is included in navigation information pertaining to each object.

44. (Previously Presented) The method according to claim 43, wherein the navigation information includes the indication information indicating whether the current object is to be reproduced seamlessly with the previous object.

45-46. (Canceled).

47. (Previously Presented) The method according to claim 23, wherein the seamless presentation information for both the seamlessly presented object and the non-seamlessly presented object is included in a same field of the navigation information pertaining to each object.

48. (Previously Presented) The apparatus according to claim 28, wherein the seamless presentation information for both the seamlessly presented object and the non-seamlessly presented object is included in a same field of the navigation information pertaining to each object.

49. (Previously Presented) The apparatus according to claim 33, wherein the seamless presentation information for both the seamlessly presented object and the non-seamlessly presented object is included in a same field of the navigation information pertaining to each object.

50. (Previously Presented) The recording medium according to claim 38, wherein the seamless presentation information for both the seamlessly presented object and the non-seamlessly presented object is included in a same field of the navigation information pertaining to each object.

51. (Previously Presented) The method according to claim 43, wherein the seamless presentation information for both the seamlessly presented object and the non-seamlessly presented object is included in a same field of the navigation information pertaining to each object.